

2018

Glycol Concentrator

A key component of Inland's glycol recycling process is the patented "Glycol Concentrator". This technologically-advanced, cost-effective system removes water from collected glycols, producing a mixture of water and 60% glycol. These fluids are typically distilled and reused in several applications including as feedstock for production of aircraft de-icing fluid, as heat transfer and engine coolants. These self-contained units are based on a technology class called mechanical vapour compression.

The unit is skid mounted, which permits its operation from portable or fixed facilities. The system is highly energy efficient and operates at costs significantly less than other distillation or evaporation processes.

Clean Distillate

The Glycol Concentrator outflow system has been fitted with a "scrubber" that reduces glycol levels to less than 1000 mg/L, meeting the most stringent environmental guidelines.



The Glycol Concentrator separates water from collected glycol effluent using a fraction of the energy of conventional technologies.

In cases where we process material in two stages, the glycol in the distillate is reduced to 100 mg/L. If ultra-pure water is required, membrane treatment is used.

Ease of Use

The Glycol Concentrator is designed to operate with minimal maintenance and operational attendance. The computer controlled operating system has built-in safety systems and checks, further ensuring ease of operation.

Since first being developed, the Glycol Concentrator has processed approximately 1,000,000,000 liters of effluent.

Glycol Concentrator Specifications

Capacity (each): 17,000 lpd;
4500 gpd (scalable system)

Infeed concentration: 1% to 20%

Concentrate output: 50% to 60% glycol solution

Distillate quality: Water at 1000 mg/L glycol (or less if required)

Energy: Electricity. Significantly less than conventional technologies.

Footprint: 6.1 m x 1.83 m x 2.5 m high + 6.7 m scrubber
20' x 6' x 8' 2" high + 22' scrubber

